

## United States Patent and Trademark Office

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## NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

06/02/2003

SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, NW Washington, DC 20037-3213

EXAMINER

JOHNSON, EDWARD M

ART UNIT

CLASS-SUBCLASS

1754

423-610000

DATE MAILED: 06/02/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/901,609	07/11/2001	Yoshiaki Sakatani	Q65273	7608

TITLE OF INVENTION: TITANIUM OXIDE AND PHOTOCATALYST

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$300	\$1600	09/02/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

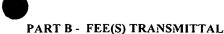
B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

 Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

**Commissioner for Patents** Alexandria, Virginia 22313-1450

(703)746-4000 <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks I through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block I, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for

maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, NW Washington, DC 20037-3213

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.

(Depositor's name)	
(Signature)	
(Date)	

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/901.609	07/11/2001	Yoshiaki Sakatani	O65273	7608

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nonprovisional	NO	\$1300	\$300	\$1600	09/02/2003
ЕХАМП	NER	ART UNIT	CLASS-SUBCLASS		
JOHNSON, EI	DWARD M	1754	423-610000		
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).			2. For printing on the patent the names of up to 3 register	ered patent attorneys	
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.		or agents OR, alternatively, single firm (having as a m	nember a registered		
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.		attorney or agent) and the registered patent attorneys or is listed, no name will be prin	r agents. If no name		

#### 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not	be printed on the patent)	☐ individual	□ corporation or other private group er	ntity 🚨 government
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):		<del></del>	
□ Issue Fee	A check in the amount	of the fee(s) is en	closed.	
□ Publication Fee	☐ Payment by credit card.	Form PTO-2038	is attached.	
☐ Advance Order - # of Copies	☐ The Commissioner is he Deposit Account Number	ereby authorized	by charge the required fee(s), or credit a(enclose an extra copy of this form).	ny overpayment, to
Commissioner for Patents is requested to apply the Issue Fee and Publ	ication Fee (if any) or to re-a	apply any previous	usly paid issue fee to the application ide	ntified above.
(Authorized Signature) (Date)		<u></u>		
NOTE; The Issue Fee and Publication Fee (if required) will not be other than the applicant; a registered attorney or agent; or the as interest as shown by the records of the United States Patent and Trad-	signee or other party in emark Office.			
This collection of information is required by 37 CFR 1.311. The in obtain or retain a benefit by the public which is to file (and by th application. Confidentiality is governed by 35 U.S.C. 122 and 37 CF estimated to take 12 minutes to complete, including gathering, prep. completed application form to the USPTO. Time will vary dependance. Any comments on the amount of time you require to consuggestions for reducing this burden, should be sent to the Chief I Patent and Trademark Office, U.S. Department of Commerce 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.	e USPTO to process) an R 1.14. This collection is aring, and submitting the ding upon the individual mplete this form and/or nformation Officer, U.S. e, Alexandria, Virginia TO THIS ADDRESS.		·	
Under the Paperwork Reduction Act of 1995, no persons are recollection of information unless it displays a valid OMB control num	equired to respond to a ber.			



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/901,609 07/11/2001 Yoshiaki Sakatani		Yoshiaki Sakatani	Q65273 70	
75	90 06/02/2003		EXAMINI	ER
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC			JOHNSON, EDWARD M	
2100 Pennsylvania Washington, DC 20			ART UNIT	PAPER NUMBER
			1754	
			DATE MAILED: 06/02/2003	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 264 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 264 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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75	90 06/02/2003		EXAMINI	ER
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, NW Washington, DC 20037-3213 UNITED STATES			JOHNSON, EDWARD M	
			ART UNIT	PAPER NUMBER
			1754	
			DATE MAILED: 06/02/2003	

## Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm,

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application No.	Applicant(s)			
	09/901,609	SAKATANI ET AL.			
Notice of Allowability	Examiner	Art Unit			
	Edward M. Johnson	1754			
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. <b>THIS</b>			
<ul> <li>2.  The allowed claim(s) is/are 1-9.</li> <li>3.  The drawings filed on are accepted by the Examine</li> </ul>	The allowed claim(s) is/are <u>1-9</u> .  The drawings filed on are accepted by the Examiner.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).				
<ol> <li>Certified copies of the priority documents have</li> </ol>	been received.				
<ol><li>Certified copies of the priority documents have</li></ol>	been received in Application No	·			
<ol><li>Copies of the certified copies of the priority do</li></ol>	cuments have been received in this r	national stage application from the			
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
5. Acknowledgment is made of a claim for domestic priority ur		onal application).			
$\underline{\hspace{0.1in}}$ (a) $\overline{\hspace{0.1in}}$ The translation of the foreign language provisional a	pplication has been received.				
6. Acknowledgment is made of a claim for domestic priority ur	nder 35 U.S.C. §§ 120 and/or 121.				
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of to the submount of the sub	this application. THIS THREE-MON nitted. Note the attached EXAMINER'	ITH PERIOD IS NOT EXTENDABLE 'S AMENDMENT or NOTICE OF			
INFORMAL PATENT APPLICATION (PTO-152) which gives reason	on(s) why the oath or declaration is o	deficient.			
<ul> <li>8.  CORRECTED DRAWINGS must be submitted.</li> <li>(a) including changes required by the Notice of Draftspers</li> <li>1) hereto or 2) to Paper No</li> <li>(b) including changes required by the proposed drawing of including changes required by the attached Examiner's</li> </ul>	correction filed, which has be	een approved by the Examiner.			
Identifying indicia such as the application number (see 37 CFR 1. each sheet.	84(c)) should be written on the drawing	gs in the front (not the back) of			
9. DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT FOR TH	sit of BIOLOGICAL MATERIAL m HE DEPOSIT OF BIOLOGICAL MAT	nust be submitted. Note the FERIAL.			
Attachment(s)					
1⊠ Notice of References Cited (PTO-892) 3□ Notice of Draftperson's Patent Drawing Review (PTO-948) 5⊠ Information Disclosure Statements (PTO-1449), Paper No. 4-7□ Examiner's Comment Regarding Requirement for Deposit	4☐ Interview Summa 8. 6☐ Examiner's Amen 8☑ Examiner's State	I Patent Application (PTO-152)  ary (PTO-413), Paper No  adment/Comment  ment of Reasons for Allowance			
of Biological Material	9□ Other .				

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Application/Control Number: 09/901,609

Art Unit: 1754

#### REASONS FOR ALLOWANCE

- 1. The following is an examiner's statement of reasons for allowance: Titanium oxide having a selected chromatogram of 28 of a mass number to electric charge ratio and at least one peak at 600 degrees Celsius or higher would not have been obvious to one of ordinary skill in the art at the time the invention was made.
- 2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward M. Johnson whose telephone number is 703-305-0216. The examiner can normally be reached on M-F 6:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley S. Silverman can be reached on 703-308-3837. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Application/Control Number: 09/901,609

Art Unit: 1754

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

EMJ June 2, 2003

> STANLEY S. SILVERMAN SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700

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